Claims

1. A heat exchanger, comprising a shell designed as a pressure vessel, provided with shell-sided supply and discharge means with which the shell can be flowed through with a first medium under pressure, further comprising a nest of tubes extending at least partly within the shell, provided with tube-sided supply and discharge means with which the tubes from the nest can be flowed through with a second medium in heat exchanging contact with the first medium under pressure, of which nest the individual tubes are each included with a supply and discharge side in tube bores extending substantially transversely to the plane of a tube plate included in the shell, characterized in that the tubes are connected with the tube-sided supply and discharge means via connecting channels located in the plane of the tube plate and crossing the tube holes.

2. A heat exchanger according to claim 1, wherein the connecting channels comprise straight bores each crossing at least two tube bores.

3. A heat exchanger according to claim 1 or 2, wherein the tube bores are designed to be continuous and are sealed with plugs.

4. A heat exchanger according to claim 3, wherein the plugs are detachable.

5. A heat exchanger according to any one of the preceding claims, apparently intended or suitable for a heat exchanger according to any one of the preceding claims, comprising a flat body part with a number of tube bores extending substantially transversely to the plane of the body part between a back face and a top face and one or more connecting channels located in the plane of the tube plate and crossing the tube holes.